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3/09 V0.3

USER MANUAL

64PXL BOARD RGB

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FOR YOUR OWN SAFETY AND THAT OF THE PRODUCT, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE BEGINNING SETUP AND INSTALLATION.

CAUTION: DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION OR WEARING ANTISTATIC WRIST STRAP.

1. INTRODUCTION

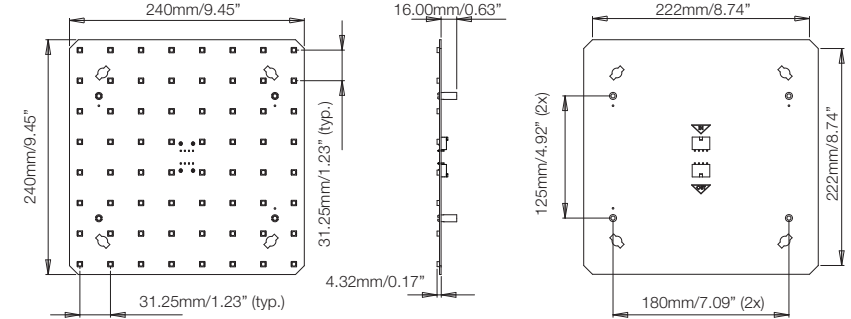
64PXL BOARD RGB (MB.BO.7214000)

The Traxon™ 64PXL Board RGB features 64 ultra bright RGB SMD LEDs on a 8 x 8 matrix with a 31.25mm/1.23" pitch. Although the LEDs provide ultra brightness, high resolution videos and graphic replays can be created by combining multiple boards.

The 64PXL Board is DMX compatible which allows daisy chaining with the Traxon TX Connect™ system. On-board SMART CHIP™ technology with the powerful feature of auto-addressing enables easy setup and installation.

- 64 Ultra Bright RGB SMD LEDs
- TX Connect™ System
- DMX Control
- Auto-Addressing
- SMART CHIP™ Technology
- Indoor Applications

DIMENSIONS



2. PACKING CONTENTS



1 x Board



1 x TX Connect Smart Interconnection Cable (30mm/1.182")



4 x Mounting Spacers



4 x Mounting Screws

3. SAFETY AND OPERATION

CAUTION – UNPLUG THE POWER SUPPLY FROM THE MAINS POWER BEFORE CONNECTING ANY CABLES AS THIS CAN DAMAGE THE PRODUCTS.

CAUTION – AVOID LOOKING DIRECTLY INTO THE LED LIGHT SOURCE AT CLOSE RANGE FOR YOUR OWN SAFETY.

ANY PERSONS INSTALLING THIS PRODUCT SHOULD COMPLY WITH LOCAL STANDARDS AND REGULATIONS AND MUST BE QUALIFIED FOR THE HANDLING OF ELECTRICAL EQUIPMENT.

This product is designed for indoor use only.

Ensure product operate within the ambient temperature range of 0°C to 50°C (32°F to 122°F).

If the fixture has been subjected to drastic temperature variances, for example, following transportation, do not connect the fixture until it has reached room temperature, as moisture condensation may cause electric shock and product damages.

When installing the fixtures and system power supplies, please ensure they will not be exposed to moisture and extreme heat (and direct sunlight for outdoor products). Besides, keep a clean operating environment for the fixtures and system power supplies.

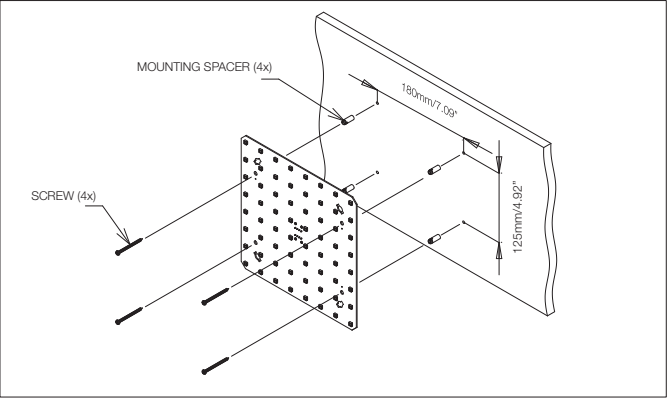
Please study this User Manual thoroughly and check the latest Technical Specification Sheets available from our website [www.traxontechnologies.com] before setup.

4. MOUNTING

4.1 BOARD

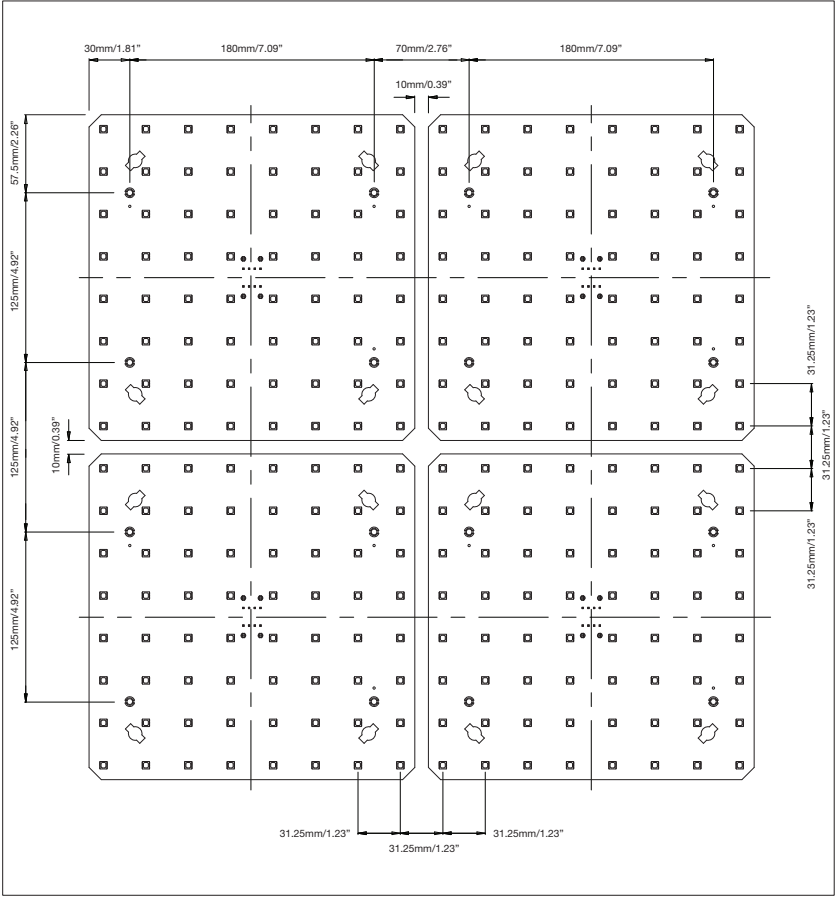
To mount the Board, first fit the nylon spacers into the mounting holes from the rear of the board. Then use the screws to firmly fasten the board to a flat surface. Careful not to over-tighten the screws (see FIG 1).

FIG 1: Board Mounting



To keep a consistent LED pitch when mounting multiple boards, use the dimensions shown in FIG 2.

FIG 2: Mounting Multiple Boards

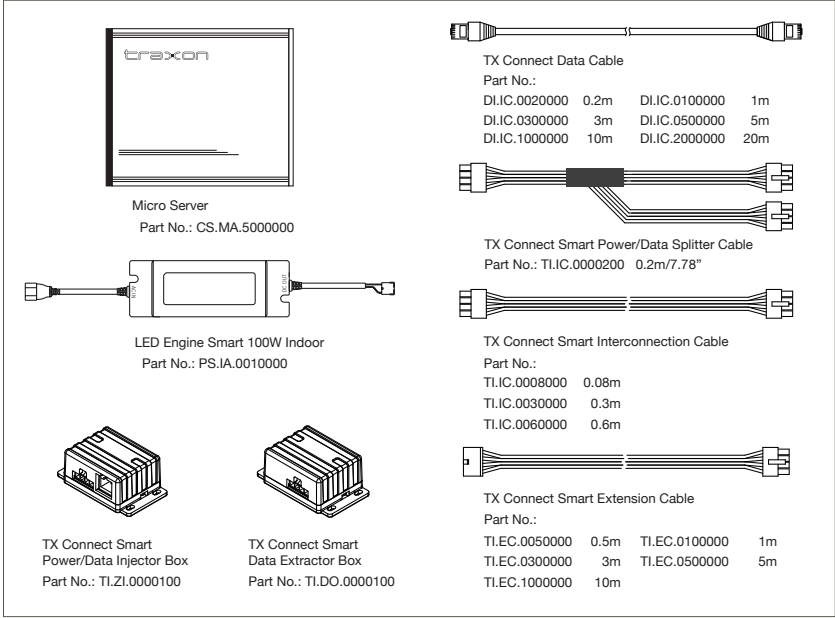


5. SYSTEM CONFIGURATION

5.1 TX CONNECT SYSTEM

The Traxon TX Connect System is a interconnection system that combines power and DMX data on a single connector cable so that only one connection is required between light fixtures. The Board uses TX Connect System for all interconnections. FIG 3 shows some components for the TX Connect System:

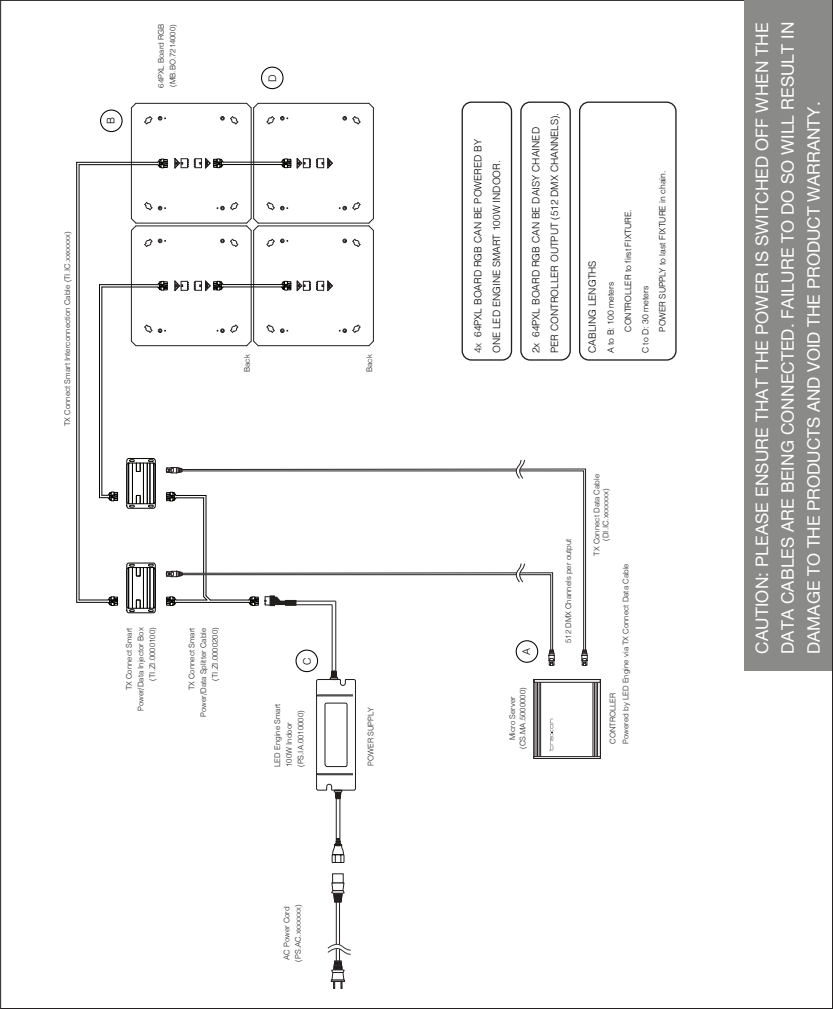
FIG 3: TX Connect System Components



5.2 SYSTEM CONNECTION

The fixtures are wired together in a daisy chain using the TX Connect Smart system (see FIG 4).

FIG 4: 64PXL Board RGB System Connection Example



5.3 CONNECTING BETWEEN FIXTURES

Use the TX Connect Smart Interconnection Cable to connect between boards (FIG 5). Use the pre-installed cables to connect between Modules. For longer distances, use existing cable together with a TX Connect Smart Extension Cable.

FIG 5: Connecting Fixtures

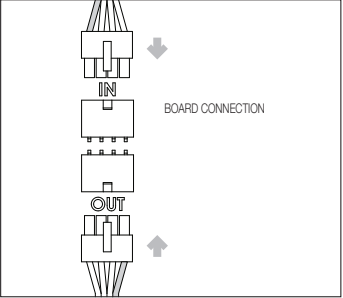
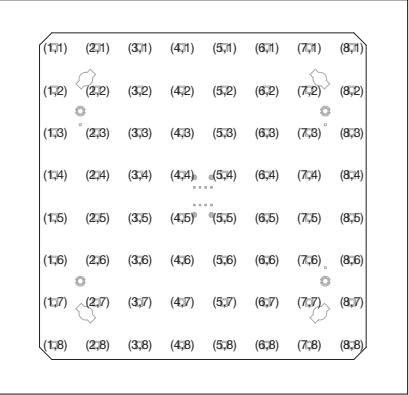


FIG 6: LED Positions on the Board



5.4 LED CONTROL

The LEDs on the 64PXL Board RGB are controlled by DMX. The LED location and on the Board and its DMX channel is shown in FIG 6 and the following table.

LED Dice	DMX Channel Number
R	$192(n-1) + 24(x-1) + 3(y-1) + 1$
G	$192(n-1) + 24(x-1) + 3(y-1) + 2$
B	$192(n-1) + 24(x-1) + 3(y-1) + 3$

Where: n is the Board position in the chain.
 x is the LED horizontal position on the Board.
 y is the LED vertical position on the Board.

POWER ON: The 64PXL Board RGB has an approximately one second initialization period after power-on. During this period, the LEDs on the board may light up randomly. This is normal behavior of the Board.

6. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill and warranty obligations and gain good use and longevity from the products.

- Do not attempt or use the product(s) until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.
- Do not use product(s) if cables are damaged.
- Do not use product(s) when wet or in wet area. Moisture can cause electric shock and damage to product(s).
- Do not use product(s) in dirty and dusty environment.
- Do not use product(s) in extreme heat environment. Ensure there is sufficient airflow and use cool air circulation if required.
- Do not drop, knock, or shake product(s). Rough handling can damage the electronics and void the warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean products. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.
- Do not use product(s) outdoors.
- Do not attempt to service or repair the product(s) unless done by an authorized service personnel. Contact your the local Traxon™ office or distributor for details.

If the product is not working correctly, please contact your nearest authorized service centre or Traxon Technologies office for assistance.

7. TECHNICAL SPECIFICATION

Color Range:	16.7 million additive RGB colors with variable intensity
Light Source:	64 Ultra Bright SMD LED
Source Life:	50,000 hours under normal operating conditions
Beam Angle:	X: 110°, Y: 90°
Power Input:	24V DC
Power Consumption:	24W max.
Operating Temperature:	0°C to 50°C (32°F to 122°F)

For use with TRAXON LED Engine Smart 100W Indoor (PS.IA.0010000) power unit.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degradation is a complex function of many factors such as operating efficiency, duration of continuous operation, and operating conditions (e.g. ambient temperature).

Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product. LED manufacturers “sort” LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

8. WARRANTY STATEMENT

Traxon warrants its Products against material or workmanship defects for a period of two (2) years from date of purchase, provided that the purchased items are used under the conditions stated in this user manual.

Please refer to the Product Warranty section under www.traxontechnologies.com/terms for warranty terms and conditions.